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DATE: Tuesday, May 04, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L8	(l2 or l5 or l6) and (coryneform or glutamicum or corynebacterium)	152
<input type="checkbox"/>	L7	l2 or l5 or l6	197
<input type="checkbox"/>	L6	L5 and (attenuat\$ or reduce or reduction or diminish or diminution or inactivat\$ or delet\$ or lower)	136
<input type="checkbox"/>	L5	L4 not l2	140
<input type="checkbox"/>	L4	L3 and (coryenform or corynebacterium or glutamicum)	151
<input type="checkbox"/>	L3	L1 or pfka or pfkb	4222
<input type="checkbox"/>	L2	L1 same (attenuat\$ or reduce or reduction or diminsh or diminut\$)	57
<input type="checkbox"/>	L1	\$phosphofructokinase or \$phosphohexokinase or (fructose adj2 \$phosphate\$ adj2 kinase) or fructokinase	4204

END OF SEARCH HISTORY

STN Columbus

10/098626

STN Search Summary

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FILE 'REGISTRY' ENTERED AT 14:25:01 ON 04 MAY 2004

L1 7 S 2.7.1.11
L2 0 S L1 AND ENZYME
L3 1 S 9001-80-3/RN
L4 2 S 2.7.1.56
L5 1 S 37278-03-8/RN

FILE 'CAPLUS' ENTERED AT 14:26:45 ON 04 MAY 2004

L6 5409 S L3 OR L5
L7 11644 S CORYNEFORM OR CORYNEBACTERI? OR GLUTAMICUM
L8 22 S L6 AND L7
L9 1650 S L6 AND (ATTENUAT? OR REDUC? OR DIMIN? OR INACTIVAT? OR DELET?
L10 10 S L8 AND L9
L11 244504 S ESCHERICHIA OR COLI
L12 254319 S L7 OR L11
L13 285 S L12 AND L6
L14 85 S L13 AND (ATTENUAT? OR REDUC? OR DIMIN? OR INACTIVAT? OR DELE
L15 158 S L6 (P) (ATTENUAT? OR REDUC? OR DIMIN? OR INACTIV? OR DELET?)
L16 6 S L13 AND L15
L17 20 S L8 NOT L16

L1 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9001-80-3 REGISTRY

CN Kinase (phosphorylating), phosphofructo- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6-Phosphofructo-1-kinase
CN 6-Phosphofructokinase
CN 6-Phosphofructose-1-kinase
CN ATP-dependent phosphofructokinase
CN ATP:D-fructose 6-phosphate 1-phosphotransferase
CN D-Fructose-6-phosphate 1-phosphotransferase
CN E.C. 2.7.1.11
CN Fructose 6-phosphate kinase
CN Fructose 6-phosphokinase
CN Nucleotide triphosphate-dependent phosphofructokinase
CN Phospho-1,6-fructokinase
CN Phosphofructokinase
CN Phosphofructokinase 1
CN Phosphohexokinase

L4 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN

RN 37278-03-8 REGISTRY

CN Kinase (phosphorylating), 1-phosphofructo- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Phosphofructokinase
CN D-Fructose-1-phosphate kinase
CN E.C. 2.7.1.56
CN Fructose 1-phosphate kinase
CN Phosphofructokinase
CN Phosphofructokinase 1
DR 56379-56-7

STN Columbus

L16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:736394 CAPLUS
 TI Cloning of 1- and 6-phosphofructokinase genes from **Coryneform** bacteria and their attenuation for increasing yields of L-lysine in fermn.

IN Farwick, Mike; Bathe, Brigitte; Brehme, Jennifer; Huthmacher, Klaus

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074944	A1	20020926	WO 2002-EP2830	20020314
DE 10112992	A1	20020926	DE 2001-10112992	20010317
US 2003092137	A1	20030515	US 2002-98626	20020318
DE 2001-10112992	A	20010317		

PI WO 2002074944 A1 20020926 WO 2002-EP2830 20020314
 DE 10112992 A1 20020926 DE 2001-10112992 20010317
 US 2003092137 A1 20030515 US 2002-98626 20020318
 PRAI DE 2001-10112992 A 20010317

L16 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:561035 CAPLUS
 TI Metabolic fluxes and L-lysine synthesis by **Corynebacterium glutamicum** in relation to cellular total reducing activity
 AU Ruklisha, Maija; Paegle, Longina
 SO Process Biochemistry (Oxford, United Kingdom) (2001), 36(12), 1233-1240

L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:553692 CAPLUS
 TI Reversible high hydrostatic pressure inactivation of phosphofructokinase from **Escherichia coli**
 SO European Journal of Biochemistry (1991), 200(3), 747-50

L16 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:492793 CAPLUS
 TI Urea-induced inactivation, dissociation and unfolding of the allosteric phosphofructokinase from **Escherichia coli**
 SO Biochemistry (1989), 28(17), 6836-41

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:91199 CAPLUS
 TI Ordered disruption of subunit interfaces during the stepwise reversible dissociation of **Escherichia coli** phosphofructokinase with potassium thiocyanate
 SO Biochemistry (1989), 28(4), 1917-22

L16 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1986:509679 CAPLUS
 TI Relationship between pseudo-HPr and the PEP: fructose phosphotransferase system in Salmonella typhimurium and **Escherichia coli**
 SO Molecular and General Genetics (1986), 203(3), 435-44

L17 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:702856 CAPLUS
 TI Amino acid substitution for change protein thermal stability in microorganism

LA Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003250544	A2	20030909	JP 2002-57863	20020304
WO 2003074697	A1	20030912	WO 2003-JP2495	20030304
JP 2002-57863	A	20020304		

PI JP 2003250544 A2 20030909 JP 2002-57863 20020304
 WO 2003074697 A1 20030912 WO 2003-JP2495 20030304
 PRAI JP 2002-57863 A 20020304

L17 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:376989 CAPLUS
 TI Genes for enzymes of carbon and energy metabolism of **Corynebacterium glutamicum** and their use in engineering metabolism for fermentation of commercially useful substances

STN Columbus

LA	German	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003040291	A2	20030515	WO 2002-EP12135	20021031	
	WO 2003040291	A3	20031113			
	DE 10154270	A1	20030515	DE 2001-10154270	20011105	
PRAI	DE 2001-10154270	A	20011105			

L17 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:773699 CAPLUS
 TI Fermentative production of D-pantothenic acid using genetically engineered **Corynebacteria**

IN	Dusch, Nicole; Marx, Achim; Pfefferle, Walter; Thierbach, Georg	LA	German	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1247868	A2	20021009	EP 2002-1400	20020119			
	EP 1247868	A3	20021030					
	DE 10116519	A1	20021017	DE 2001-10116519	20010403			
	US 2002176884	A1	20021128	US 2001-983167	20011023			
PRAI	DE 2001-10116519	A	20010403					
	US 2001-983167	A	20011023					

L17 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:89878 CAPLUS
 TI Methods for identifying therapeutic targets for treating infectious disease

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002007780	A2	20020131	WO 2001-US23095	20010720
WO 2002007780	A3	20030220		
US 2003130179	A1	20030710	US 2001-910345	20010720
PRAI US 2000-219598P	P	20000720		
US 2000-244953P	P	20001101		
US 2001-276728P	P	20010316		

L17 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:10067 CAPLUS
 TI Method for the fermentative production of D-pantothenic acid by using **coryneform** bacterium

IN	Dusch, Nicole; Thierbach, Georg	LA	German	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1167520	A2	20020102	EP 2001-114629	20010619			
	EP 1167520	A3	20020123					
	DE 10030702	A1	20020103	DE 2000-10030702	20000623			
	US 2002068335	A1	20020606	US 2001-887054	20010625			
	US 6667166	B2	20031223					
PRAI	DE 2000-10030702	A	20000623					

claims priority to both

102(e)
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DATE

L17 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:763175 CAPLUS
 TI Expression of Bacteroides α -1,2-fucosyltransferase in E. coli to produce fucose-containing carbohydrate complex

LA	Japanese	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001077313	A1	20011018	WO 2001-JP3109	20010411	
	AU 2001046894	A5	20011023	AU 2001-46894	20010411	

STN Columbus

EP 1275714 A1 20030115 EP 2001-919886 20010411
 US 2004058418 A1 20040325 US 2003-257332 20030306
 PRAI JP 2000-109148 A 20000411
 WO 2001-JP3109 W 20010411

L17 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:545704 CAPLUS

TI Manufacture of five-carbon sugars and sugar alcohols using microorganisms deficient in or transformed with genes involved in pentose-phosphate pathway

IN Miasnikov, Andrei; Ojamo, Heikki; Povelainen, Mira; Gros, Hakan; Toivari, Mervi; Richard, Peter; Ruohonen, Laura; Koivuranta, Kari; Londesborough, John; Aristidou, Aristos; Penttilae, Merja; Plazanet-Menut, Claire; Deutscher, Josef

SO PCT Int. Appl., 205 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001053306	A2	20010726	WO 2001-FI51	20010122
	WO 2001053306	A3	20020418		
	AU 2001031784	A5	20010731	AU 2001-31784	20010122
	BR 2001007918	A	20021105	BR 2001-7918	20010122
	EP 1254244	A2	20021106	EP 2001-903815	20010122
	JP 2003520583	T2	20030708	JP 2001-553780	20010122
	US 2003068791	A1	20030410	US 2001-908744	20010720
PRAI	US 2000-488581	A	20000121		
	US 1992-973325	B2	19921105		
	US 1993-110672	B1	19930824		
	US 1995-368395	A1	19950103		
	US 1997-790585	A2	19970129		
	WO 2001-FI51	W	20010122		

L17 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:472908 CAPLUS

TI Modified Helicobacter pylori α -1,2-fucosyltransferase gene and use in fucose-containing sugar biosynthesis

LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001046400	A1	20010628	WO 2000-JP9033	20001220
	AU 2001022216	A5	20010703	AU 2001-22216	20001220
	EP 1243647	A1	20020925	EP 2000-985799	20001220
PRAI	JP 1999-362243	A	19991221		
	WO 2000-JP9033	W	20001220		

L17 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:396523 CAPLUS

TI The pfk gene of *Corynebacterium glutamicum* and its use in increasing yields of lysine in fermentation

IN Mockel, Bettina; Pfefferle, Walter

LA German

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1103613	A1	20010530	EP 2000-125528	20001122
	DE 19956131	A1	20010531	DE 1999-19956131	19991123
	JP 2001186895	A2	20010710	JP 2000-354308	20001121
	ZA 2000006856	A	20010712	ZA 2000-6856	20001122
	CN 1297055	A	20010530	CN 2000-132502	20001123
	BR 2000005543	A	20010807	BR 2000-5543	20001123
PRAI	DE 1999-19956131	A	19991123		

102(a)
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STN Columbus

L17 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:393183 CAPLUS
 TI The pfkA gene of **Corynebacterium glutamicum** and its use in increasing yields of lysine in fermentation
 IN Moeckel, Bettina; Pfefferle, Walter
 LA German

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10011922	A1	20010531	DE 2000-10011922	20000311
	EP 1106622	A2	20010613	EP 2000-122746	20001019
	EP 1106622	A3	20040102		
	CN 1297054	A	20010530	CN 2000-132480	20001121
	JP 2001186896	A2	20010710	JP 2000-354681	20001121
	ZA 2000006849	A	20010605	ZA 2000-6849	20001122
	BR 2000005531	A	20010807	BR 2000-5531	20001123
PRAI	DE 1999-19956133	A1	19991123		
	DE 2000-10011922	A	20000311		

in IDS

102 (a)
w/out FOR
PRIORITY DATE

L17 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:348479 CAPLUS
 TI **Corynebacterium** diphtheriae: a PTS view to the genome July
 SO Journal of Molecular Microbiology and Biotechnology (2001), 3(3), 415-422

L17 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:265608 CAPLUS
 TI **Corynebacterium** thermoaminogenes genes for enzymes involved in amino acid biosynthesis, recombinant expression for L-amino acid biosynthesis
 LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025447	A1	20010412	WO 2000-JP6913	20001004
	AU 2000075561	A5	20010510	AU 2000-75561	20001004
	EP 1219712	A1	20020703	EP 2000-964654	20001004
	BR 2000014496	A	20020820	BR 2000-14496	20001004
PRAI	JP 1999-282716	A	19991004		
	JP 1999-311147	A	19991101		
	JP 2000-120687	A	20000421		
	WO 2000-JP6913	W	20001004		

L17 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:78542 CAPLUS
 TI Increasing yields of amino acids from microbial hosts by increasing intracellular levels of NADPH
 IN O'Donohue, Michael R.; Hanke, Paul D.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001007626	A2	20010201	WO 2000-US19914	20000721
	WO 2001007626	A3	20010531		
	BR 2000012712	A	20020409	BR 2000-12712	20000721
	EP 1208205	A2	20020529	EP 2000-950529	20000721
	US 6465238	B1	20021015	US 2000-621451	20000721
	JP 2003521888	T2	20030722	JP 2001-512892	20000721
	ZA 2002001268	A	20030303	ZA 2002-1268	20020214
	US 2003017557	A1	20030123	US 2002-223355	20020820
	US 6680190	B2	20040120		
PRAI	US 1999-145217P	P	19990723		
	US 1999-150017P	P	19990820		
	US 2000-621451	A3	20000721		
	WO 2000-US19914	W	20000721		

STN Columbus

L17 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:59943 CAPLUS
 TI Large-scale production of GDP-fucose and Lewis X by bacterial coupling
 SO Journal of Industrial Microbiology & Biotechnology (2000), 25(4), 213-217

L17 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:900776 CAPLUS
 TI L-lysine production with **coryneform** bacterium 6-phosphofructokinase coding pfk gene

LA Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077172	A1	20001221	WO 2000-JP3736	20000608
BR 2000011672	A	20020319	BR 2000-11672	20000608
EP 1195431	A1	20020410	EP 2000-935595	20000608
JP 1999-168377	A	19990615		
JP 1999-311111	A	19991101		
WO 2000-JP3736	W	20000608		

L17 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:296445 CAPLUS
 TI Production of UDP-N-acetylglucosamine by coupling metabolically engineered bacteria
 AU Tabata, Kazuhiko; Koizumi, Satoshi; Endo, Tetsuo; Ozaki, Akio
 SO Biotechnology Letters (2000), 22(6), 479-483

L17 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:714378 CAPLUS
 TI L-Lysine experimental yields by **Corynebacterium glutamicum** on carbon substrates
 AU Ruklisha, M.; Ionina, R.
 SO Mededelingen - Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen (Universiteit Gent) (1998), 63(4a), 1341-1344

L17 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:184754 CAPLUS
 TI Determination of the carbon flux in the central metabolism of **Corynebacterium glutamicum** by ¹³C-isotope analysis
 AU Marx, Achim
 SO Berichte des Forschungszentrums Juelich (1997), Juel-3459, 1-111 pp.
 LA German

L17 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:631539 CAPLUS
 TI Physiological and NMR-spectroscopic investigations of in vivo activity of central metabolism pathways in wild and recombinant strains of **Corynebacterium glutamicum**
 AU Wendisch, Volker
 SO Berichte des Forschungszentrums Juelich (1997), Juel-3397, 1-111 pp.
 LA German

L17 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:588807 CAPLUS
 TI L-glutamic acid and its manufacture with recombinant **Corynebacterium**
 LA Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63102692	A2	19880507	JP 1986-246895	19861017
JP 07121227	B4	19951225		
JP 1986-246895		19861017		

Abstract in IDS ↑ enzyme, not attenuate

for glutamate